



PTO/SB/08A (08-03)

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/007,270
				Filing Date	November 8, 2001
				First Named Inventor	Hageman, Gregory S.
				Art Unit	1647
Examiner Name	Sharon L. Tomer J. Seharaseyon				
Sheet	1	of	5	Attorney Docket Number	020618-000120US

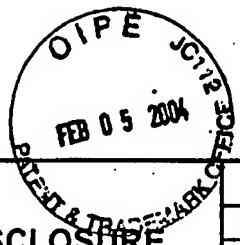
U.S. PATENT DOCUMENTS+						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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PTO/SB/08B (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/007,270		
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		First Named Inventor	Hageman, Gregory S.		
		Art Unit	1647		
		Examiner Name	Sharon L. Turner J. Seharaseyon		
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/JS/	C1	Acharya, S. et al. SPACR, "A novel interphotoreceptor matrix glycoprotein in human retina that interacts with hyaluronan." J Biol Chem 273, 31599-31606 (1998).	
	C2	Acharya, S., Rayborn, M. & Hollyfield, J. "Characterization of SPACR, a sialoprotein associated with cones and rods present in the interphotoreceptor matrix of the human retina: immunological and lectin binding analysis." Glycobiology 8, 997-1006 (1998).	
	C3	Alberdi, E., Hyde, C.C. & Becerra, S.P. "Pigment epithelium-derived factor (PEDF) binds to glycosaminoglycans: analysis of the binding site." Biochemistry 37, 10643-10652 (1998).	
	C4	Alignments HSIMPG3, HSIMPG17 Felbor w/ SEQ ID NOs 1.3.5	
	C5	Anderson et al., "Vitronectin Receptor Expression and Distribution at the Photoreceptor-Retinal Pigment Epithelial Interface", J. Comp. Neurol. 360:1-16 (1995).	
	C6	Blanks, J.C., Johnson, L.V. & Hageman, G.S. "Stage-specific binding of peanut agglutinin to aggregates of degenerating photoreceptor cells in the rd mouse retina." Exp. Eye Res., 265-273 (1993).	
	C7	Chailin, M.H., Wortham, H.S. & Brun-Zinkernagel, A.M. "Immunocytochemical localization of CD44 in the mouse retina." Exp. Eye Res. 58, 359-365 (1994)	
	C8	Chu, Y. et al. "Developmental study of chondroitin-6-sulphate in normal and dystrophic rat retina." Graefes Archive Clin. & Exp. Ophthalmol. 230, 476-482 (1992).	
	C9	Felbor et al. "Mapping, genomic organization and mutational analyses of a novel interphotoreceptor matrix gene (IPM150): a candidate for 6q-linked maculopathies." Am. J. Human Genetics Suppl. A333:1947 (1997).	
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	C12	Genbank Accession No. AA721009 (1998)	
	C13	Genbank Accession No. AA815118 (1998)	
	C14	Genbank Accession No. AF01772 (1998)	

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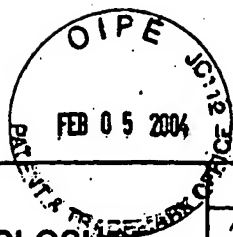
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/JS/	C15	Genbank Accession No. AF047491, February 24 1998 (KUEHN, M.H.)	
	C16	Genbank Accession No. AF047492, February 24 1998 (KUEHN, M.H.)	
	C17	Genbank Accession No. H38604 (1995)	
	C18	Genbank Accession No. U76717(1996)	
	C19	Hageman and Johnson, "Structure, Composition and Function of the Retinal Interphotoreceptor Matrix", Progress in Retinal Research, Vol. 10, pp. 207-249, Osborne and Chader, eds., Pergamon Press (1991).	
	C20	Hageman et al., "The Interphotoreceptor Matrix Mediates Primate Retinal Adhesion", Arch. of Ophthalmology 113:655-660 (1995).	
	C21	Hageman, G.S. & Johnson, L.V. "Chondroitin 6-sulfate glycosaminoglycan is a major constituent of primate cone photoreceptor matrix sheaths." Curr. Eye Res. 6, 639-646 (1987).	
	C22	Hageman, G.S. & Kuehn, M.H. "Biology of the Interphotoreceptor Matrix-RPE-Retina Interface." The Pigmented Retinal Epithelium: Current Aspects of Function and Disease (eds. Marmor, M. & Wolfensberger, T.) 417-454 (Oxford University Press, New York, 1998).	
	C23	Hageman, G.S., Kirchoff-Rempe, M.A., Lewis, G.P., Fisher, S.K. & Anderson, D.H. "Sequestration of basic fibroblast growth factor in the primate retinal interphotoreceptor matrix." Proc. Natl. Acad. Sci. U.S.A 88, 6706-6710 (1991).	
	C24	Hageman, G.S., Marmor, M.F., Yao, X.Y. & Johnson, L.V. "The Interphotoreceptor matrix mediates primate retinal adhesion." Arch. Ophthalmol. 113, 655-660 (1995).	
	C25	Hewitt and Adler, "The retinal pigment epithelium and interphotoreceptor matrix: structure and specialized functions", Retina, Ryan et al., eds., pp. 57-64, The C. V. Mosby Company (1989).	
	C26	Hollyfield et al., "Retinal Attachment to the Pigment Epithelium", Retina 9:1:59-68 (1989).	
	C27	Hollyfield, J.G., Rayborn, M.E., Landers, R.A. & Myers, K.M. "Insoluble interphotoreceptor matrix domains surround rod photoreceptors in the human retina." Exp. Eye Res. 51, 107-110 (1990)	
	C28	Hollyfield, J.G., Rayborn, M.E., Tammi, M. & Tammi, R. "Hyaluronan in the Interphotoreceptor Matrix of the Eye: Species Differences in Content, Distribution, Ligand Binding and degradation." Exp Eye Res 66, 241-248 (1998).	
✓	C29	Iwasaki, M., Rayborn, M.E., Tawara, A. & Hollyfield, J.G. "Proteoglycans in the mouse interphotoreceptor matrix. V. Distribution at the apical surface of the pigment epithelium before and after retinal separation." Exp. Eye Res. 54, 415-432 (1992).	

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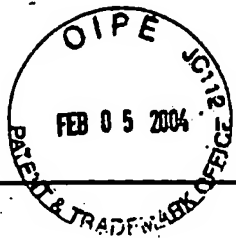
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/JS/	C30	Johnson and Hageman, "Structural and Compositional Analyses of Isolated Cone Matrix Sheaths", Invest. Ophthalmol. Vis. Sci. 32:7:1951-1957 (1991).		
	C31	Johnson et al., "Effects of Retinal Degenerations on the Cone Matrix Sheath", Inherited and Environmentally Induced Retinal Degenerations, pp. 217-232, Alan R. Liss, Inc. (1989).		
	C32	Kelsell et al., "Localization of a Gene (CORD7) for a Dominant Cone-Rod Dystrophy to Chromosome 6q", Am. J. Hum. Genet. 63:274-279 (1998).		
	C33	Korte et al., "Hyaluronate Distribution in the Regenerating Retinal Pigment Epithelium of the Rabbit: A Study Using Confocal Laser Scanning Microscopy", Microscopy Res. Tech. 29:344-349 (1994).		
	C34	Kuehn, M.H. et al., "H. sapiens interphotoreceptor matrix proteoglycan 150 (IMPG1)", Database Genbank [Online] Accession No. AF047492 (February 24, 1998).		
	C35	Kuehn, M.H. et al., "M. fascicularis interphotoreceptor matrix proteoglycan 150", Database Genbank [Online] Accession No. AF047491 (February 24, 1998).		
	C36	Kuehn, M., Stone, E. & Hageman, G. "Molecular analyses of IPM 150, a photoreceptor cell-specific proteoglycan." Invest. Ophthalmol. Vis. Sci. Suppl. 38, S599 (1997).		
	C37	KUEHN, M.H. & HAGEMAN G.S. "Characterization of a cDNA encoding IPM150, a novel human interphotoreceptor matrix chondroitin 6-sulfate proteoglycan" Invest. Ophthalmol. & Vis. Sci., 15 March 1995, p. S510, Vol. 36, No. 4.		
	C38	Kuehn, M.H., Mullins, R.F. & Hageman, G.S. "Retinal interphotoreceptor matrix proteoglycan core protein sequences are unique and highly conserved." Invest. Ophthalmol. Vis. Sci. Suppl. 34, 1201 (1993).		
	C39	Lazarus and Hageman, "Xyloside-Induced Disruption of Interphotoreceptor Matrix Proteoglycans Results in Retinal Detachment", Invest. Ophthalmol. Vis. Sci. 33:2:364-376 (1992).		
	C40	Lazarus et al., "Photoreceptor Degeneration and Altered Distribution of Interphotoreceptor Matrix Proteoglycans in the Mucopolysaccharidosis VII Mouse", Exp. Eye Res. 56:531-541 (1993).		
	C41	LEWIN, BENJAMIN <u>Genes IV</u> , 1990, p. 810, Oxford University Press		
	C42	Marmor et al., "Retinal Adhesiveness in Surgically Enucleated Human Eyes", Retina 14:181-186 (1994).		
	C43	Miezewska, "The Interphotoreceptor Matrix, a Space in Sight", Microsc. Res. Tech. 35:463-471 (1996).		
	C44	Miezewska, K.E., van Veen, T., Murray, J.M. & Aguirre, G.D. "Rod and cone specific domains in the interphotoreceptor matrix." J. Comp. Neurol. 308, 371-380 (1991).		
↓	C45	Porrello and LaVail, "Immunocytochemical localization of chondroitin sulfates in the interphotoreceptor matrix of the normal and dystrophic rat retina", Curr. Eye Res. 5:12:981-993 (1986).		
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/JS/	C46	PRYSIECKI, CRAIG et al. "Occurrence of β -hydroxylated asparagines residues in non-vitamin K-dependent proteins containing epidermal growth factor-like domains" <i>Proc. Natl. Acad. Sci.</i> , November 1987, pp. 7856-7860, Vol. 84.	
	C47	Russell and Hageman, "Insoluble Interphotoreceptor Matrix in Human Vitreous After Rhegmatogenous Retinal Detachment", <i>Amer. J. Ophthalmol.</i> 23:386-391 (1997).	
	C48	SAMBROOK, J. et al. <u>Molecular Cloning: A Laboratory Manual, Second Edition</u> , 1989, pp. 9.47-9.50 & 11.48-11.49, Cold Spring Harbor Laboratory Press.	
	C49	SKOLNICK, JEFFREY & FETROW, JACQUELYN "From genes to protein structure and function: novel applications of computational approaches in the genomic era" <i>Trends in Biotech.</i> , 2000, pp. 34-39, Vol. 18, No. 1	
	C50	Stone, E. et al. "Clinical features of a Stargardt-like dominant progressive macular dystrophy with genetic linkage to chromosome 6q." <i>Arch. Ophthalmol.</i> 112, 765-772 (1994).	
	C51	Tate et al., "Age-Dependent Change in the Hyaluronic Acid Content of the Human Chorioretinal Complex", <i>Arch. Ophthalmol.</i> 111:963-967 (1993).	
	C52	WANG, XIN et al. "Sequence analysis of PG10.2, a gene expressed in the pineal gland and the outer nuclear layer of the retina" <i>Mol. Brain Res.</i> , 1996, pp. 269-278, Vol. 41, Elsevier.	
	C53	Yao et al. "Recovery of Retinal Adhesion After Enzymatic Perturbation of the Interphotoreceptor Matrix", <i>Invest. Ophthalmol. Vis. Sci.</i> 33:3:498-503 (1992).	
	C54	Yao et al., "Retinal Adhesiveness in the Monkey", <i>Invest. Ophthalmol. Vis. Sci.</i> 35:2:744-748 (1994).	
	C55	Yao et al., "Retinal Adhesiveness Is Weakened by Enzymatic Modification of the Interphotoreceptor Matrix in Vivo", <i>Invest. Ophthalmol. Vis. Sci.</i> 31:2051-2058 (1994).	

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